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TC 184/SC 4
ISO/DIS 10303-511

VOTING BEGAN ON/DEBUT DU VOTE:1998-10-01
TIME LIMIT FOR REPLY/DELAI:1999-03-01

TITLE: Industrial automation systems and integration -- Product
data representation and exchange -- Part 511: Application
interpreted construct: Topologically bounded surface

TITRE: Systèmes d'automatisation industrielle et intégration --
Représentation et échange de données de produits --
Partie 511: Constuction interprétée d'application:
Surface délimitée topologiquement

DISAPPROVAL/DESAPPROBATION APPROVAL/APPROBATION				DISAPPROVAL/DESAPPROBATION APPROVAL/APPROBATION			
MEMBER BODY/COMITE MEMBRE				MEMBER BODY/COMITE MEMBRE			
Australia (SAA)	P	X		Korea, Republic of (KNITQ)	P	X	
Austria (ON)			X	Netherlands (NNI)	P	X	
Belgium (IBN)	O	X		Norway (NSF)	P	X	
Brazil (ABNT)	P	X		Poland (PKN)	N	X	
Canada (SCC)	P			Portugal (IPQ)	P	X	
China (CSBTS)	P	X		Russian Federation (GOST R)	P	X	
Czech Republic (CSNI)	O	X		Spain (AENOR)	P	X	
France (AFNOR)	P		X **	Sweden (SIS)	P	X	
Germany (DIN)	P	X	*	Switzerland (SNV)	P		X **
Italy (UNI)	P	X		United Kingdom (BSI)	P	X	*
Japan (JISC)	P	X	*	USA (ANSI)	S	X	
Kenya (KEBS)		X					

**FRENCH BALLOT
on ISO/DIS 10303-511**

Annex

Comments: Lack of resources.

We suggest the French following sub-title;

Partie 511 : Construction interprétée: Surface délimitée topologiquement

So these changes have to be made:

Add r to "Construction" and delete " d'application "

Germany

Issue/Reference No.: GER-511-1

Originator: AP214-team
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Date: 10/02/99

Country No.:

Issue status:

Urgency: major

Type: editorial

Related Document:

Related Issues:

Clause: 4

Page: 4,5

Sentence/abstract/keywords:

Missing USE FROM statement

Issue Description:

In order to be able to use the entity edge in various local rules in clause 4.2, this entity must be visible in the schema, thus explicitly interfaced.

Proposed Solutions/Remarks:

Add the following statement in the SCHEMA of this part:

USE FROM topology_schema (edge);

Japanese Comments on ISO DIS 10303-511

VOTE: Yes with comments

ISSUE NUMBER:

JPN 511DIS-1

AUTHOR: Kazuya G. Kobayashi

CLAUSE:

CALSSIFICATION: MINOR, TECHNICAL

DESCRIPTION:

Logical error is found in the formal proposition WR10 of
ADVANCED_FACE in AIC_TOPOLOGICALLY_BOUNDED_SURFACE schema.
There is a inconsistency between the EXPRESS specification and the
descriptive text. If the text is correct, EXPRESS should be fixed;
to change "< 3" as to be "> 2".

PROPOSED SOLUTION: (optional)

As described above, EXPRESS statement "< 3" in two lines of
WR10 should be "> 2" as follows, which are indicated by "#".

```
| WR10 : ((NOT ('AIC_TOPOLOGICALLY_BOUNDED_SURFACE.SWEPT_SURFACE' IN
|         TYPEOF(face_geometry))) OR
|         ((NOT ('AIC_TOPOLOGICALLY_BOUNDED_SURFACE.POLYLINE' IN
|         TYPEOF(face_geometry% swept_surface.swept_curve))) OR
|         (SIZEOF(face_geometry% swept_surface.swept_curve% polyline.points)
#         > 2))) AND
|         (SIZEOF (QUERY (elp_fbnds <* QUERY (bnds <* SELF.bounds |
|         'AIC_TOPOLOGICALLY_BOUNDED_SURFACE.EDGE_LOOP' IN
|         TYPEOF(bnds.bound)) |
|         NOT (SIZEOF (QUERY (oe <* elp_fbnds.bound% path.edge_list |
|         ('AIC_TOPOLOGICALLY_BOUNDED_SURFACE.POLYLINE' IN
|         TYPEOF(oe.edge_element% edge_curve.edge_geometry)) AND
|         (NOT (SIZEOF (oe.edge_element% edge_curve.edge_geometry%
#         polyline.points) > 2)))) = 0))) = 0);
```


BALLOT RESPONSE AND UK COMMENTS ON ISO/DIS 10303-511

STEP - AIC: Topologically bounded surface

1. INTRODUCTION

This document presents the UK vote, comments and recommendations on ISO/DIS 10303-511

2. VOTING RESPONSE

The UK votes **APPROVAL** of ISO/DIS 10303-511 with the following comments.

3. COMMENTS

ISSUE NUMBER UK-511-01

AUTHOR: Ray Gault

CLAUSE: 4.2 p.9 (advanced_face)

CLASSIFICATION: Technical

DESCRIPTION:

There is a logical error in WR10 of this entity which makes it inconsistent with the description of this rule. (As written it ensures that polylines have LESS than 3 points.)

In EXPRESS of WR10 replace 2 occurrences of ' < 3 ' with ' ≥ 3 '.

ISSUE NUMBER UK-511-02

AUTHOR: Ray Gault

CLAUSE: Annex C figure C.8 p.22

CLASSIFICATION: Minor Technical

DESCRIPTION:

For consistency with part 42 TC the composite_curve_segment entity should be shown as a subtype of founded_item.

